

# SEQUENCE LISTING

<110> GONG, Fangcheng et al.

<120> ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC  
ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES  
THEREOF

<130> CL001155-CIPDIV

<140> (to be assigned)

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<150> US 09/799,344

<151> 2001-03-06

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<212> PRT
<213> Homo sapiens

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      20             25             30
Ser Arg Val Leu Ser Gly Ala Ser Gln Lys Pro Ala Ser Arg Val Leu
      35             40             45
Val Ala Ser Arg Asn Phe Ala Asn Asp Ala Thr Phe Glu Ile Lys Lys
      50             55             60
Cys Asp Leu His Arg Leu Glu Glu Gly Pro Pro Val Thr Thr Val Leu
      65             70             75             80
Thr Arg Glu Asp Gly Leu Lys Tyr Tyr Arg Met Met Gln Thr Val Arg
      85             90             95
Arg Met Glu Leu Lys Ala Asp Gln Leu Tyr Lys Gln Lys Ile Ile Arg
      100            105            110
Gly Phe Cys His Leu Cys Asp Gly Gln Glu Ala Cys Cys Val Gly Leu
      115            120            125
Glu Ala Gly Ile Asn Pro Thr Asp His Leu Ile Thr Ala Tyr Arg Ala
      130            135            140

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His Gly Phe Thr Phe Thr Arg Gly Leu Ser Val Arg Glu Ile Leu Ala  
 145 150 155 160  
 Glu Leu Thr Gly Arg Lys Gly Gly Cys Ala Lys Gly Lys Gly Gly Ser  
 165 170 175  
 Met His Met Tyr Ala Lys Asn Phe Tyr Gly Gly Asn Gly Ile Val Gly  
 180 185 190  
 Ala Gln Val Pro Leu Gly Ala Gly Ile Ala Leu Ala Cys Lys Tyr Asn  
 195 200 205  
 Gly Lys Asp Glu Val Cys Leu Thr Leu Tyr Gly Asp Gly Ala Ala Asn  
 210 215 220  
 Gln Gly Gln Ile Phe Glu Ala Tyr Asn Met Ala Ala Leu Trp Lys Leu  
 225 230 235 240  
 Pro Cys Ile Phe Ile Cys Glu Asn Asn Arg Tyr Gly Met Gly Thr Ser  
 245 250 255  
 Val Glu Arg Ala Ala Ala Ser Thr Asp Tyr Tyr Lys Arg Gly Asp Phe  
 260 265 270  
 Ile Pro Gly Leu Arg Val Asp Gly Met Asp Ile Leu Cys Val Arg Glu  
 275 280 285  
 Ala Thr Arg Phe Ala Ala Ala Tyr Cys Arg Ser Gly Lys Gly Pro Ile  
 290 295 300  
 Leu Met Glu Leu Gln Thr Tyr Arg Tyr His Gly His Ser Met Ser Asp  
 305 310 315 320  
 Pro Gly Val Ser Tyr Arg Thr Arg Glu Glu Ile Gln Glu Val Arg Ser  
 325 330 335  
 Lys Ser Asp Pro Ile Met Leu Leu Lys Asp Arg Met Val Asn Ser Asn  
 340 345 350  
 Leu Ala Ser Val Glu Glu Leu Lys Glu Ile Asp Val Glu Val Arg Lys  
 355 360 365  
 Glu Ile Glu Asp Pro Ala Gln Phe Ala Ala Ala Asp Pro Glu Pro Pro  
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 385 390 395 400  
 Val Arg Gly Ala Asn Gln Trp Ile Lys Phe Lys Ser Val Ser  
 405 410

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 <212> PRT  
 <213> Homo sapiens

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 Gln Lys Pro Ala Ser Arg Val Leu Val Ala Ser Arg Asn Phe Ala Asn  
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 Asp Ala Thr Phe Glu Ile Lys Lys Cys Asp Leu His Arg Leu Glu Glu  
 35 40 45  
 Gly Pro Pro Val Thr Thr Val Leu Thr Arg Glu Asp Gly Leu Lys Tyr  
 50 55 60  
 Tyr Arg Met Met Gln Thr Val Arg Arg Met Glu Leu Lys Ala Asp Gln  
 65 70 75 80  
 Leu Tyr Lys Gln Lys Ile Ile Arg Gly Phe Cys His Leu Cys Asp Gly  
 85 90 95  
 Gln Glu Ala Cys Cys Val Gly Leu Glu Ala Gly Ile Asn Pro Thr Asp  
 100 105 110  
 His Leu Ile Thr Ala Tyr Arg Ala His Gly Phe Thr Phe Thr Arg Gly



His	Leu	Ile	Thr	Ala	Tyr	Arg	Ala	His	Gly	Phe	Thr	Phe	Thr	Arg	Gly	115	120	125
Leu	Pro	Val	Arg	Ala	Ile	Leu	Ala	Glu	Leu	Thr	Gly	Arg	Arg	Gly	Gly	130	135	140
Cys	Ala	Lys	Gly	Lys	Gly	Gly	Ser	Met	His	Met	Tyr	Ala	Lys	Asn	Phe	145	150	155
Tyr	Gly	Gly	Asn	Gly	Ile	Val	Gly	Ala	Gln	Val	Pro	Leu	Gly	Ala	Gly	165	170	175
Ile	Ala	Leu	Ala	Cys	Lys	Tyr	Asn	Gly	Lys	Asp	Glu	Val	Cys	Leu	Thr	180	185	190
Leu	Tyr	Gly	Asp	Gly	Ala	Ala	Asn	Gln	Gly	Gln	Ile	Phe	Glu	Ala	Tyr	195	200	205
Asn	Met	Ala	Ala	Leu	Trp	Lys	Leu	Pro	Cys	Ile	Phe	Ile	Cys	Glu	Asn	210	215	220
Asn	Arg	Tyr	Gly	Met	Gly	Thr	Ser	Val	Glu	Arg	Ala	Ala	Ala	Ser	Thr	225	230	235
Asp	Tyr	Tyr	Lys	Arg	Gly	Asp	Phe	Ile	Pro	Gly	Leu	Arg	Val	Asp	Gly	245	250	255
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Lys	Asp	Arg	Met	Val	Asn	Ser	Asn	Leu	Ala	Ser	Val	Glu	Glu	Leu	Lys	325	330	335
Glu	Ile	Asp	Val	Glu	Val	Arg	Lys	Glu	Ile	Glu	Asp	Ala	Ala	Gln	Phe	340	345	350
Ala	Thr	Ala	Asp	Pro	Glu	Pro	Pro	Leu	Glu	Glu	Leu	Gly	Tyr	His	Ile	355	360	365
Tyr	Ser	Ser	Asp	Pro	Pro	Phe	Glu	Val	Arg	Gly	Ala	Asn	Gln	Trp	Ile	370	375	380
Lys	Phe	Lys	Ser	Val	Ser											385		390